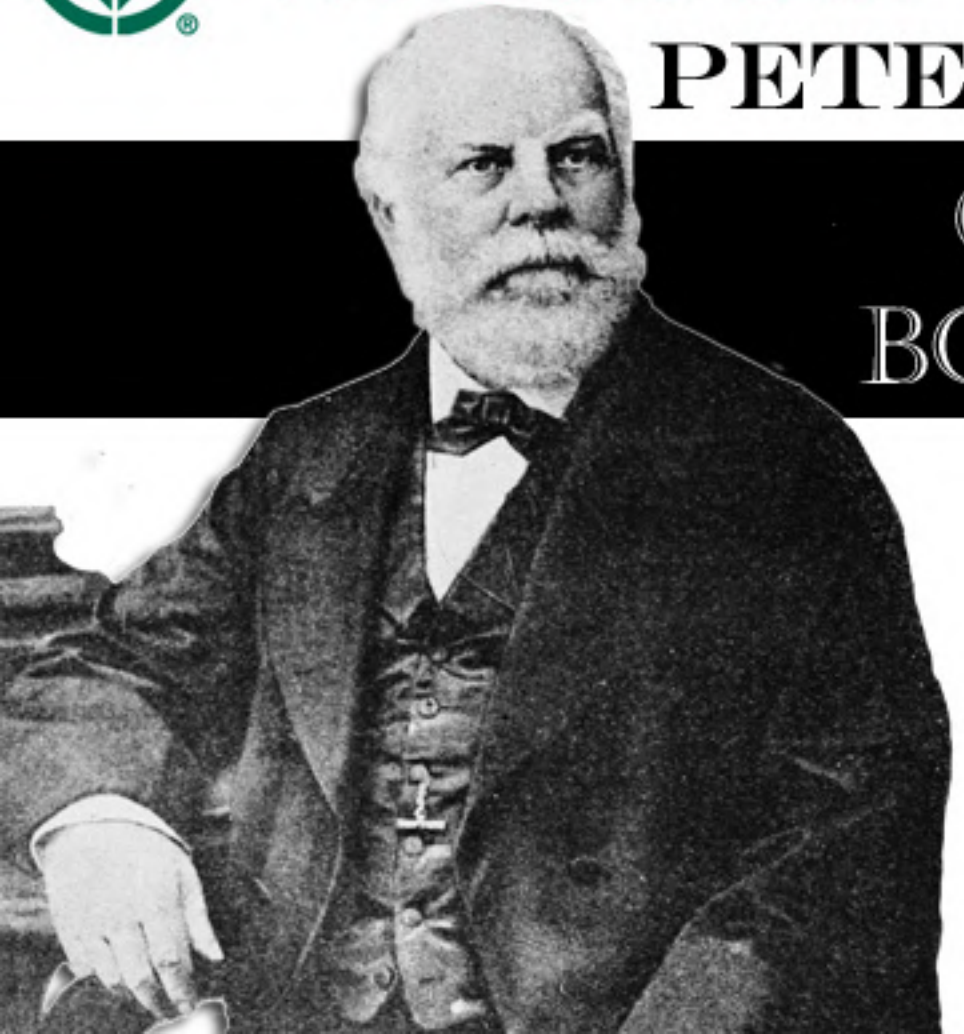
Missouri Botanical Garden

Peter H. Raven Library

George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

1-11

105

Scrophulariaceae

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

4215

a new

them' the gradu

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Penstemon barbatus (fresh)

Hort Bot Hudson July 9 1862

flower in a contracted elongated raceme, pendulous, or declined.
fruit erect.
calyx oblique, turned upwards
apparently slit below.
corolla tubular, scarcely widened or ventricose
upper lip just as long as lower lip,
with very short lobes
lobes of lower lip reflexed, oblong,
linear-oblong, slit to the base.
style & sterile filament as long as tube
sterile filament slightly clavate
and truncate or rather bi-lipped
upper lip curved over the lower one

lateral posterior anterior

side of sterile filament

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building, Cor. Fourth & Olive Sts., St. Louis, Mo.

MISSOURI BOTANICAL GARDEN LIBRARY

9126

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

Rubisteuon barbatus

H. D. Mission. July 9. 1862

Aestivation of bud corolla

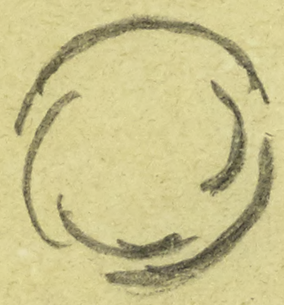
common case

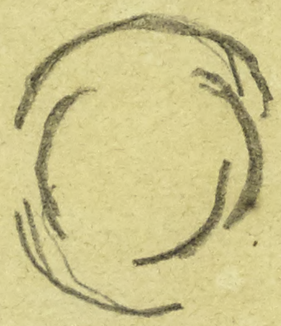
rare

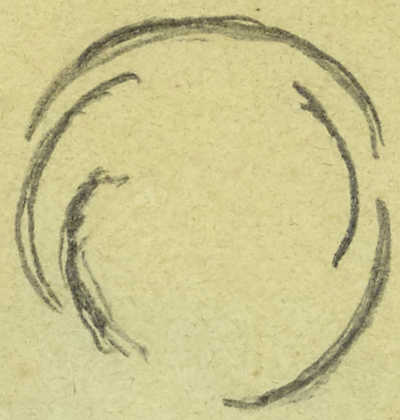
more rare

regular!

Calyx







manner of opening of calyx

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building, Cor. Fourth & Olive Sts., St. Louis. Mo.

MISSOURI BOTANICAL GARDEN
ENGELMANN PAPERS

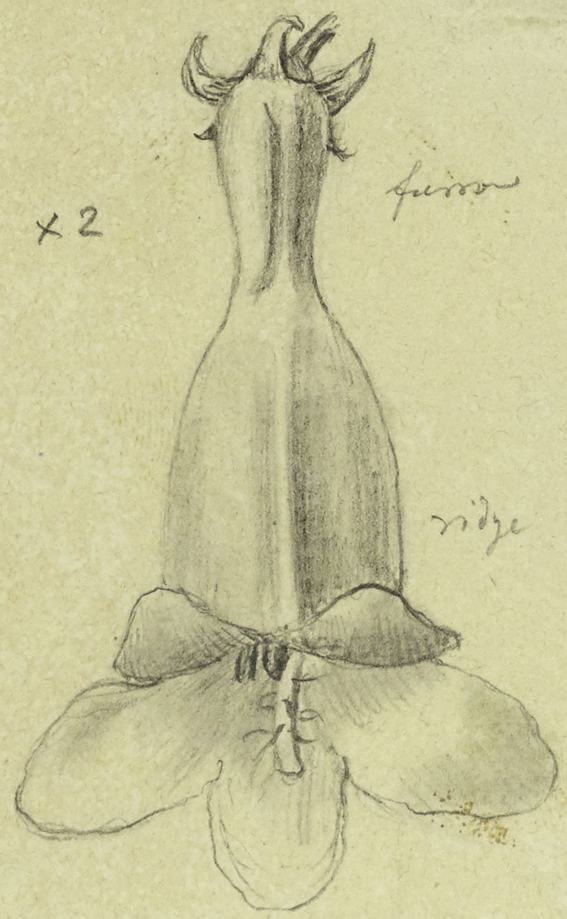
4217

0 cm 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

June 18th 1861

Pontederia Dr. Hale

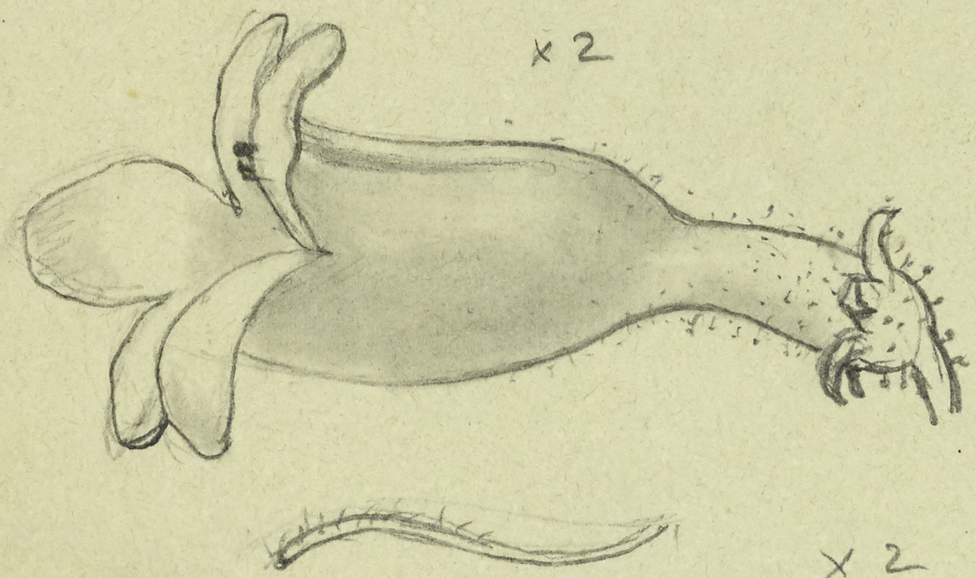
×2



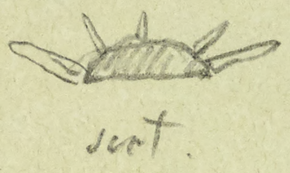
spur

ridge

×2



×10



seed.

upper side of stamile filament.

×2

inside of lower lip

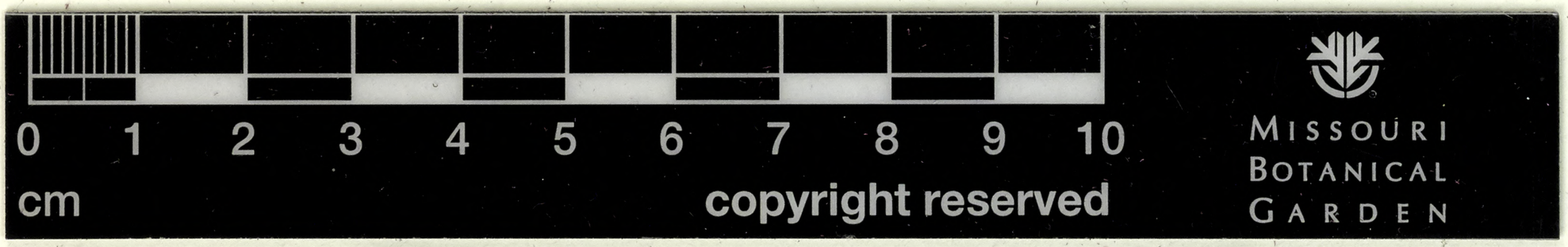
4218

M. W. ALEXANDER,

SOUTH-EAST CORNER FOURTH AND MARKET STREETS,

ST. LOUIS.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



Penstt. Torreyi
New Mexico
Fendler

P. barbatus
Hort B. Frankf

P. coccineus
Chihuahua
Wislizen

June 1862
dried
Specimens

Leroptelanin
stamina antica plerumque longiora

HERBARIUM OF THE MISSOURI BOTANICAL GARDEN, ST. LOUIS, MO.
SHEET MOUNT SIZE
MISSOURI BOTANICAL GARDEN HERBARIUM
ENGELMANN MEMORIAL
0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

ARTHUR LEITCH,

APOTHECARY AND CHEMIST,

Sixth and Market streets, St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4219

cm 0 1 2 3 4 5 6 7 8 9 10
copyright reserved
MISSOURI BOTANICAL GARDEN

Penstemon

striatus

Lindheimeri from Texas seeds

Glaberrimus, foliis infimis rosulatis, ovato-lanceolatis basi longe attenuatis, superioribus angustè lanceolatis summis ellipticis basi latè linearibus; panicula elongata laxa; pedunculis (bi)floris, sub medio bibracteolatis calycis lobis obtusiusculis, vix marginatis; corolla tubulosa profunde bilabiata, labio ~~erecto~~ supremo erecto, (bilobo) (subfornicato) lobis rotundatis, lab. inferiore reflexo, lobis oblongo linearibus apice rotundatis; antheris glabris, loculis divaricatis; filamento sterili multo breviore, apice compresso truncato, glaberrimo.

Most probably from Texas seeds (but perhaps by a mistake from New Mexico 2) From the shape of Corolla belonging to Eupentstemon Beath (X. 327) and near P. barbatus ~~operhaps rather~~ to Elmigera (X 329) — Habit of Cyanocaulos, 3. integerrimi (X. 322) but Corolla certainly different —

Cult. here in June, 2½ feet high — panicula very lax 1½ feet long; pedicles 1½ inch long secondary pedicels ½ - ¾ inch long — corolla 18 l. long ⅓ bilabiate divided; 2 upper lobes 2 l. long; lower lobes 5 - 6 l. long; all 1½ l. wide; corolla outside crimson, or miniata; inside yellow, lower lobes on the upper or inner side striated with dark red.

This is evidently the same plant as Fendler's № 581 — pedicles in small specimens one flowered, bibracteolate — the larger ones 3 - 6 flowered

see descript p. 21 among Coniferae

My P. crassus of Cosiguriachi (Pl. Wisl. Note 40) has a paleolate, at the margin somewhat glandulous calyx; lower lip of corolla not reflexed, and rather shorter than upper lip, and not more deeply divided; lobes rounded, not linear oblong; corolla somewhat more ventricose — sterile filament almost as long as corolla, dilated at apex Torr. (Pl. Stansbury) (certainly an Eupentstemon and near Elmigera

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

4220

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Maurandia hastatae, volubiles, flaberrimae

Maurandia semperflorens Mx fol. simu Cato hastato-
triangulatis, pedunculis petiolos longe superantibus
calyce corolla (majore) quadrupla breviore (vel)
M. antirrhiniflora Willd fol. simu Cato hastato-triangulatis
pedunculis petiolos subaequantibus; calyce
corolla (minore) diu ~~di~~ aequante s. superante (Texas)
M. brevipedunculata n sp fol. simu acuto hastato
triangulatis, pedunculis petiolis multoties
brevioribus, calyce corollam (majore)
diu ~~di~~ aequante s. superante (N Mexico
Wislizen No 45

Maurandia (Subgen Epixiphium) Wislizeni Engler in Gray. —

Epixiphium Tenuiflora

calyx 5 partitus, 5-angulatus, laciniis foliaceis, basi gibbis, persistens
auctus; Corolla tubulosa, faucem versus nuda, limbi bilabiati,
bilabiatis, Flamenta apice incurvo-stipitata, antherae
bomlis divaricatis; capsula basi oblique ovata, stylo basi crassiformi,
aucta accrescita, bomlis sub apice rima transversali
dehiscentibus; semina compressa aucta, margine
late alato membranaceo cincta.

A glabrous climber of New Mexico, ~~perennial~~, of the
appearance of M. Maurandia with habit closely
but ~~slightly~~ distinguished by the much enlarged
calyx, the long accrescent capsule, & the
compressed alate seeds — The shape of the
persistent calyx and capsule distinguish it
likewise from Lophospermum & Rhodochiton.

E. Maurandioides N Mexico from Albuquerque to
Valverde comm. fl. July & Augst & Septr.
— An herbaceous plant, on first sight hardly to be
distinguished from the species of Maurandia; but
the leaves with long petioles, and narrow veins, on long
petioles; pedicels very short, and lobes of calyx at base
accrescent
— Leaves 1–2 inches long, petiole 1–½ inch long;
pedicels about 3 lines long; calyx lobes of 3-9 nerved
12–15 l. long; fruiting calyx much enlarged, 8–9 nerved
corolla
(veins retinulated),
with only small spaces or spurs at base, lobes almost
acuminated 15–18 l. long. — Capsule 6 l. long, with
angles

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

en Cayes

an accumination, formed by the bases of the staples, abt 6 l. long.
a
opening with transversely, the apex of the obtuse valves
only separating; seeds very numerous, black, 1 line
wide 1½ long, —

4221

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Maurandia semperflorens M. foliis simulato
hastato triangulatis, pedunculis petiolos
longe superantibus, calyce corolla adpressa
quadruplo superante (spec nov)

M. antirrhiniflora V. foliis simulato
hastato triangulatis, pedunculis petiolos
subaequantibus, corolla calyce corollam
dimidiam aequante s. superante (Texas)

M. Gen. ~~pedunculata~~ n. sp. foliis simulato
hastato triangulatis; pedunculis petiolis
multoties brevioribus; calyce corollam
dimidiam aequante s. superante (N Mexico

for the examination proves this to be a distinct genus
Gen Maurandia — Lophospermum. I name it
Epixiphium maurandioides

4222

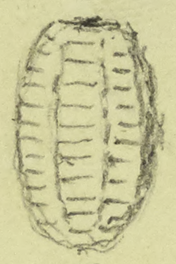
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Micranthes Nuttallii Gray
var triphylla
Gr Garber Florida

April 29 1879

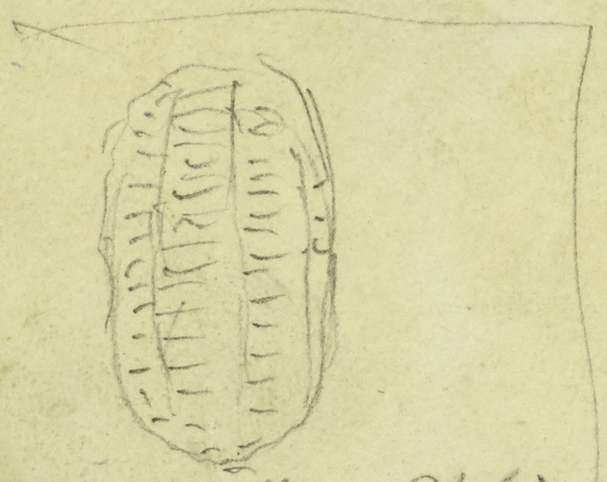
seeds ×60
840



6-8 ribs
10-12 cross striae

×30

×30



M. Nuttallii Ph(a)

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

4223

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Ed. T. Bohling.
APOTHECARY.
No. 2600 Lacledé Ave., S. W. Cor. Jefferson Ave.
ST. LOUIS, MO.

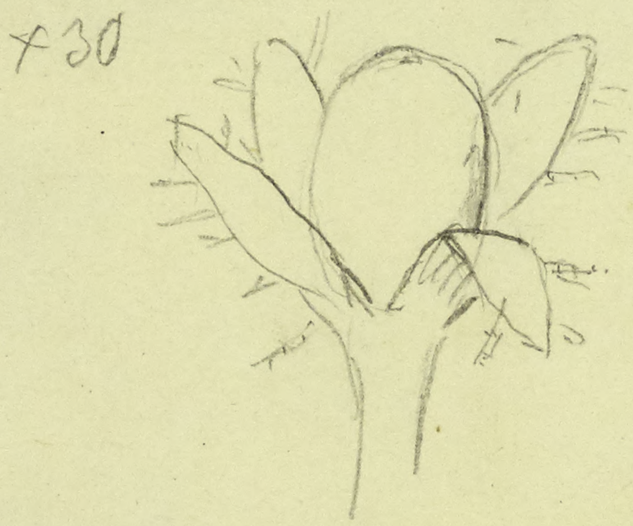
0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Thiosanthes — Sept 9 1864

orbiculare Nyx

Bahia Salzmann

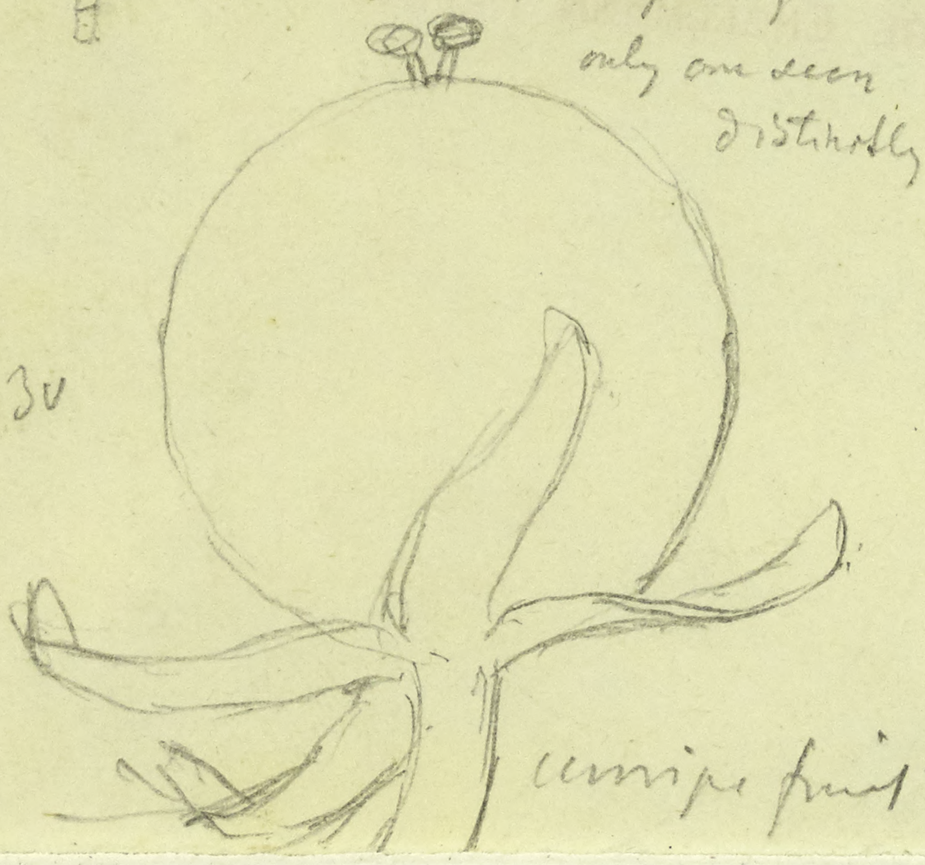
ex Hb Hb Mus



seeds
×60
many in each capsule

orbiculate anther

probably 2 stigma
only one seen
distichous



ovary 3 celled

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

4224

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

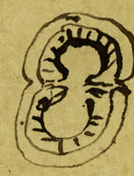
ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

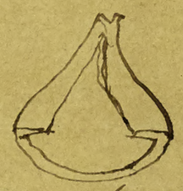
Leucophyllum texanum ?

DC Prod X. 344

Endl gen. 3988



vert of Capsule septicide bivalvis



upper half of one valve

seed

cotyl.

Cenizo (Gregg)

semina oblonga compressa cuneiformia curva, in placentae foveolis sidelantia oblique pendula — tenuissime tuberculato striata

radicula supera

Cal 5 partit

corolla tubulosa ventricosa, 5 lobe intus pilosa, vilat.

stam 4 didynama, antherae connivent.

stigma globoso-conicum

folia alterna, et ramuli canescenti-tomentosi pilis ramosissimis

333. 356. 371. Common to Mier. 6-8' high very ornamental

& sweet scented — very common but east — Tableland

Fl. — May & June (from Monterey to Saltillo, Bejar & Monclova (Gregg)

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

4225

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Jour Mr Buckley
Dec 9 1843

Personatae etc from Texas

Gerardia purpurea var DC. X. 517
Gerardia fasciculata Ell. Wet Prairies, Houston
Sept. and
Ger. setacea Prairies, Lynchburg
July
G. flava Thickets, Houston
June – Aug.
Gratiola aurea Marsh (rarely) marsh – October
margin of ponds etc. Houston
G. aemula ponds, wet prairies,
wet woods, Houston etc.
(also Arkansas Aug. Engl.) May – Sept.
Veronica peregrina elongata DC X. 498
Buchnera ~~pusilla~~ flora Engelm. Dry prairies
Houston etc – April & May –
(Wet prairies on the coast (brackish)
May – July.
Linaria DC. X. 278
Antirrhin canadense marsh. Ditches wood
Hapestis cuneifolia wet places, clayey soil
Houston Marsh of ponds June July
Euchroma indivisa Engelm. Prairies, Houst
March & April
Pentstemon gracile Nutt? Dry prairies, Hou.
April. (also October)
P. Digitalis Engelm. April May. Houst
High Prairies & in Ravines
Lindernia dilatata marsh wet places Houston
L. repanda Ell Galveston May Sept.
(also Missouri & Arkansas)
Gerardia maritima Bot mag X. 517
spiciflora Engelm. margin of stagnate
brackish water, Galvest May
G. purpurea Galvest May
Gratiola virginica Texas, May

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

4226

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

1843

Hysanthes gratioloides B. DC X. 419
Limosella Arkansas wet places July
Ranunculus Jamesii T & G. in cold springs & Missouri
DC. X. 371. May.
Geum rivale purpurea DC X. 517 Eagle Prairie North Illinois
Dry hills, St Louis Sept.
G. heterophylla Nutt sandy banks &
Arkansas Ark August
G. flavum fertile Woods Missouri & Ark.
G. pedatum Carica Pike woods Arkansas Sept
G. flavum Prairies thickets, op Woods
Gratiola aurea Missouri May. Margin of ponds July
Buchnera americana June to Sept Missouri & Ark
Collinsia verna Nutt Missouri Arkansas Apr May
Sagittaria variabilis July & August
sagittifolia thickets in rich woods
Hesperis matronalis Missouri August
Veronica hera except Cal. Tubes V. peregrina on San
only V. arvensis
V. becabunga Ohio
V. Anagallis Chicago
V. scutellata upper Missouri
V. virginica for Banks of Ohio & Mississippi
Pulsatilla nuttaliana Missouri Arkansas
May
Gymnandra Houghtonii has been found by Mr Geyer
on the St Peters River upper Missouri
& near Brandon — the Illinois
River

4227

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

1842

Gerardia purpurea Linn. sp. 880, annua caule erecto, supra ramoso (ramis erectis) glabro glabrato, foliis lineari-lanceolatis, subtus glaberrimis, supra pubescentibus, floribus axillaribus, pedunculis folio duplo longioribus, calyce campanulato 5 dentato dentibus subulatis, corolla magna rosea obliqua ventricosa (Woodv. Flora Amer. Bor.) calycis laciniis acutis; antheris pilosis. — Prairies Chicago Illi. — Rather rare in the State of Ohio Sept. & Oct.

Intermediate between G. purpurea & fasciculata; distinct from both by the longer peduncle, and the calyx being deeply dentate, not truncate with subulate teeth; also by the rose coloured corolla and the less hairy filaments, the larger capsule etc.

distinct from purpurea by the exact growth, smooth leaves, linear leaves, calyx &c. distinct from fasciculata by the smooth stem & branches, plane, not revolute many of leaves, calyx etc. —

Gerardia pinnatifida Nutt. ? n. sp. or = heterophylla Nutt ?

annua, caule erecto, ramoso, glabro, foliis lanceolato s lineari-lanceolatis acutis, inferioribus sub pinnatifidis caulinis, subtus glabris, supra et margine scabris, pedunculis calyce brevioribus, calyce campanulato 5 dentato, dentibus tubo aequantibus lanceolatis acutis, corolla purpurea pubescente

intermedia inter G. purp & G. fasciculat! Arkansas, Sand Bay.

Maritima B. de Prod

Gerardia spiciflora n. sp. radice annua (Genni?)

caule erecto, ~~viscoso~~ pilosulo, superne simplici, subnudo, spiciflora, oppositi, oblongo lanceolatis, basi attenuatis, superioribus subpetiolatis obtusis, inferioribus ~~inferioribus~~ ovatis, margine scabro revolutis; floribus oppositis ad apicem caulis elongatum in spicam nudam dispositis; bracteis et pedunculis calycis dimidio brevioribus; calyce subregulari 5 dentato dentibus ovatis obtusiusculis; corolla ~~subpurpurea~~ (parva minore) calcarata, ~~plantis~~ antheris subtus pilosis.

Margin of Brackish stagnant Waters, Galveston Island May (probably with the same)

L. Lousiana 1843.

plant about 10-15 inches high, remarkable by the long (6-8 inches) naked flowering stems and bracts. ~~Flowers~~ Corolla funnelshaped, not much exceeding 6-9 lines long the greater size but smaller ~~in~~ than G. maritima. Cut distinct by ~~the naked~~ the naked flowering stems, the revolute, ~~the~~ margin of the leaves which appear to be also somewhat succulent; and by the ~~shape~~ form of the calyx.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4228

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN

Veronica 1843

V. anagallis L the american variety from Upper Illinois is distinguished from my German specimens by the narrower, leaves shorter bracts and especially the ovate - lanceolate oblong divisions of the calyx, which are equal to the didymous capsule; in the european specimens the divisions are linear lanceolate and longer than the suborbicular emarginate capsule

4229

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

0 1 2 3 4 5 6 7 8 9 10
cm
copyright reserved
MISSOURI BOTANICAL GARDEN